CONTROL DATA CYBERNET® SERVICE:
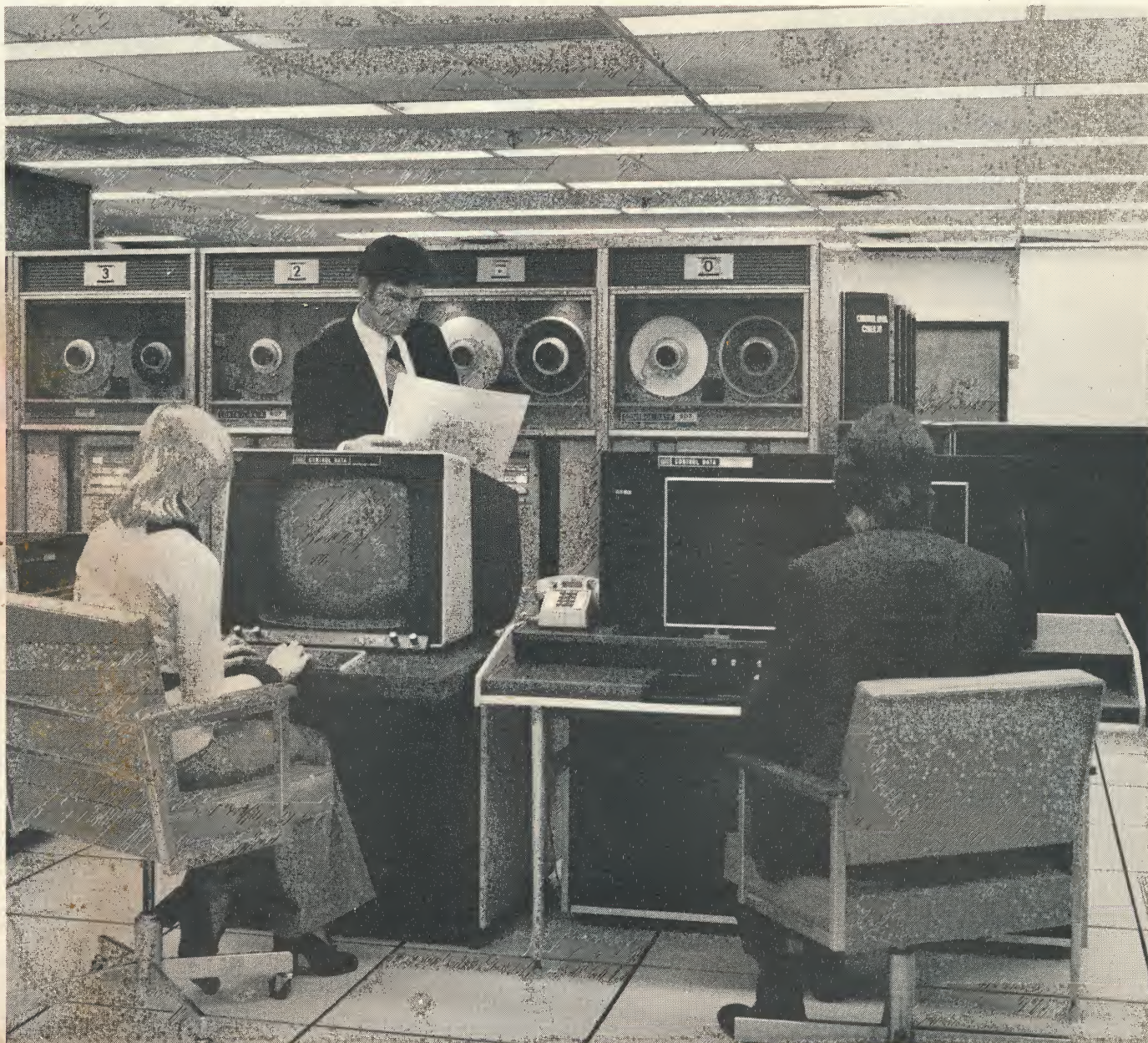# CDC CYBER 76 SERVICE

CONTROL DATA CORPORATION

Control Data now offers a significant extension to the range of data processing services and computing capacity available to CYBERNET Service customers in the United States and Canada with the installation of a CDC CYBER 70, Model 76 Computer System — the first in Control Data's worldwide services network. It provides increased computing capability to process extremely large problems at reduced turnaround time. Especially applicable for processing nuclear codes and other engineering or scientific work, CYBER 76 Service provides cost-effective solutions particularly for users with large-scale requirements.

SYSTEM FEATURES

Key to the power of the new CYBER 76 Service is the 15-million-instruction-per-second processing speed of the Model 76. Coupled with this are two specialized types of memory: a 65K-word small core memory which provides fast access and high performance and a 512K-word large core memory, providing additional high-speed storage resources.

A CDC CYBER 70, Model 73 Computer System functions as an interface or "front end" to the Model 76, handling all communications. Peripheral equipment associated with the Model 73 and Model 76 configuration includes a disk storage subsystem, magnetic tape transports, plus high-speed line printer, card reader and card punch. The total system configuration is dedicated to CYBERNET Service customers, and only batch processing is offered.

CYBER 76 Service provides on-line permanent file storage. Magnetic tape usage is also available in support of remote batch. This support is offered on-line to the Model 73 with files staged to the Model 76.

OPERATING SYSTEMS

CYBER 76 Service is offered through the SCOPE 2.1 operating system which includes the following standard products:

- COMPASS 3.0
- FORTRAN EXTENDED 4.3
- COBOL 2.0
- SORT/MERGE 1.1
- ALGOL-60 4.0

The SCOPE 3.4 operating system is installed on the Model 73 "front end."

SPECIALIZED APPLICATIONS PACKAGES

CDC CYBER 76 Service offers customers a series of sophisticated applications packages. CYBERNET Service maintains software licenses—often exclusively—that permit it to offer these specialized programs. As a result, many users share the cost of such software, eliminating individual expense for developing and maintaining applications.

CYBERNET applications packages offered are those which require extensive processing time and resources. Although CDC 6600 Computer Systems process these same applications efficiently, CYBER 76 Service handles problems four to five times faster, thereby making jobs highly cost-effective on this system.

Five application packages are currently available to CYBER 76 Service customers:

- ADLPIPE for static and dynamic stress analysis of redundant piping systems
- ANSYS engineering system for analyzing structural and heat transfer problems
- APEX III linear programming system
- CDC/NASTRAN finite element program for analyzing a wide variety of structural problems
- PDQ-7 nuclear reactor analysis code

CYBERNET Service plans to add other application programs to the CYBER 76 library. Some of these will be in electrical engineering and nuclear fuel management, plus additional programs for structural analysis.

The power and capacity of CYBER 76 Service are also available for those users who process their own software. In addition to the standard operating procedure of submitting jobs to a queue for processing, CYBERNET Service offers reserved blocks of time for users who want exclusive use of the computer system.

CYBER 76 Service is designed to provide maximum computing capacity and efficiency for customers. Because it handles jobs efficiently and processes work so rapidly, turnaround time is greatly improved for both large and small jobs.

Operations and software assistance are available to CDC CYBER 76 Service customers, as well as complete documentation on this service.

CYBER 76 SERVICE ACCESS

CYBER 76 Service employs the same CDC 200 User Terminal communications protocol that is standard in the CYBERNET remote batch service offering; thus users can access both services from the same terminal. CDC 200 User Terminals (CDC MARC-II) and others which emulate the 200 UT, such as CDC 734 Terminals, IBM 1130 Computer Systems, COPE terminals and DATA 100 terminals, provide the acceptable protocol.

CYBER 76 Service is available nationwide via dial-up lines provided by Control Data. Canadian customers may access the service through normal long distance telephone channels.

For more information, please contact your local Control Data sales representative or:

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